Attorney's Docket No. 16-302   <u>Patent</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the
Application of: NICHOLAS BRUNO, ET AL.   Examiner: N/A

Application No.:   10/608083   Art Unit: N/A

Filed: JUNE 27, 2003

Title: METHOD AND APPARATUS FOR
                USING CONDITIONAL
                SELECTIVITY AS FOUNDATION
                FOR EXPLOITING STATISTICS
                ON QUERY EXPRESSIONS

- -

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 together with a

copy of the document(s) listed on that form. Applicant respectfully requests that the Examiner

consider the listed document(s), initial the enclosed Form PTO-1449 to indicate such

consideration, and return a copy of the initialed Form PTO-1449 to the Applicant.

This Information Disclosure Statement is being submitted pursuant to 37 C.F.R. §

Serial No. 29/170,001
Attorney Docket No. 16-302

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement shall not be construed to be an admission that the information cited in this Information Disclosure Statement is, or is considered to be, material to patentability.

The Commissioner is hereby authorized to charge any required fee under 37 C.F.R. § 1.17 in connection with this communication to our Deposit Account No. 23-0630.

Respectfully submitted,

Date: August 26, 2003

Jennifer N. Hinton
Registration No. 47,653

WATTS HOFFMANN CO., L.P.A.
1100 Superior Ave., Ste. 1750
Cleveland, Ohio 44114

Phone: (216) 241-6700
Facsimile: (216) 241-8151

-2-

Form PTO-1449 U.S. DEPARTMENT OF COMMERCE		Attorney=s Docket Number 16-385	Application Number 10/608,083
(Modified)Patent and Trademark Office			
INFORMATION DISCLOSURE CITATION		Applicant Nicolas Bruno, et al.	Filed June 27, 2003
Sheet 1 of 1		Examiner	Art Unit

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO

OTHER DOCUMENTS

	N. Bruno and S. Chaudhuri. Exploiting Statistics on Query Expressions for Optimization. In *Proceedings of the 2002 ACM International Conference on Management of Data (SIGMOND'2)*, 2002.
	N. Bruno and S. Chaudhuri. Efficient Creation of Statistics over Query Expressions. In *Proceedings of the 19th International Conference on Data Engineering*, 2003.
	N. Bruno, S. Chaudhuri, and L. Gravano. STHoles: A Multidimensional Workload-Aware Histogram. In *Proceedings of the 2001 ACM International Conference on Management of Data (SIGMOND'01)*, 2001.
	S. Chaudhurin et al. Optimizing Queries with Materialized Views. In *Proceedings of the 11th International Conference on Data Engineering*, 1995.
	J. Goldstein and P.-A. Larson. Optimizing Queries Using Materialized Views: A Practical, Scalable Solution. In *Proceedings of the 2001 ACM International Conference on Management of Data (SIGMOND'01)*, 2001.
	G. Graefe. The Cascades Framework for Query Optimization. *Data Engineering Bulletin*, 18(3), 1995.
	G. Graefe and W. McKenna. The Volcano Optimizer Generator: Extensibility and Efficient Search. In *Proceedings of the 9th Int. Conference on Data Engineering*, 1993.
	D. Gunopulos et al. Approximating multi-dimensional aggregate range queries over real attributes. In *Proceedings of the 2000 ACM International Conference on Management of Data (SIGMOND'00)*, 2000.
	L. M. Haas, J. C. Freytag, G. M. Lohman, and H. Pirahesh. Extensible Query Processing in Starburst. In *Proceedings of the 1989 ACM International Conference on Management Data (SIGMOND'89)*, 1989.
	M. Muralikrishna and D. J. DeWitt. Equi-Depth Histograms For Estimating Selectivity Factors For Multi-Dimensional Queries. In *Proceedings of the 1988 ACM International Conference on Management of Data (SIGMOND'88)*, 1988.
	V. Poosala and Y. E. Ioannidis. Selectivity Estimation Without the Attribute Value Independence Assumption. In *Proceedings of the Twenty-third International Conference on Very Large Databases (VLDB'97)*, AUG. 1997.
	V. Poosala, Y. E. Ioannidis, P. J. Haas, and E. J. Shekita. Improved Histograms for Selectivity Estimation of Range Predicates. In *Proceedings of the 1996 ACM International Conference on Management of Data (SIGMOND'96)*, 1996.
	M. Stillger, G. M. Lohman, V. Markl, and M. Kandil. LEO - DB2's Learning Optimizer. In *Proceedings of the 27th International Conference on Very Large Databases*, 2001.

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP ∋ 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.